(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 15 January 2004 (15.01.2004)

(10) International Publication Number WO 2004/004463 A1

- (51) International Patent Classification7: A01N 47/36. 43/80 // (A01N 47/36, 43:88, 43:80, 43:70) (A01N 43/80, 43:88, 43:70)
- (21) International Application Number:

PCT/EP2003/007321

- (22) International Filing Date: 8 July 2003 (08.07.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/393,740

· 8 July 2002 (08.07.2002) US

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNERGISTICALLY ACTING HERBICIDAL MIXTURES

(57) Abstract: A synergistic herbicidal mixture comprising: A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula (I) in which the variables have the following meanings: R1, R3 are halogen, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl or alkylsulfony; R2 is a optionally substituted heterocyclic

selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl and 4,5-dihydroisoxazol-5-yl; R4 is hydrogen, halogen or alkyl; R5 is alkyl; R6 is hydrogen or alkyl; or one of its environmentally compatible salts; and B) a synergistically effective amount of the compound of formula (II) or one of its environmentally compatible salts; and, if desired, C) at least one further herbicidal compound; and, if desire, D) at least a safener. Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.